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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,612	04/30/2001	Hongtao Yu	UTSD:795US	2625
7.	590 07/29/2003			
Steven L. Highlander Fulbright & Jaworski L.L.P. Suite 2400			EXAMINER	
			HUFF, SHEELA JITENDRA	
600 Congress Avenue Austin, TX 78701			ART UNIT	PAPER NUMBER
			1642 DATE MAILED: 07/29/2003	14

Please find below and/or attached an Office communication concerning this application or proceeding.

· · · · · · · · · · · · · · · · · · ·		Application No.	Applicant(s)			
Office Action Summary						
		09/845,612	YU ET AL.			
		Examin r	Art Unit			
***	The MAILING DATE of this communication	Sheela J Huff	1642			
The MAILING DATE of this communication appears n the cover sheet with the corresp ndence address Period f r Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)🖂	Responsive to communication(s) filed on <u>19 June 2003</u> .					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠	This action is non-final.				
3)□						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>						
4)🛛 (	4)⊠ Claim(s) <u>1-45</u> is/are pending in the application.					
4	4a) Of the above claim(s) <u>1-38</u> is/are withdrawn from consideration.					
5) 🗌 (	Claim(s) is/are allowed.					
6)⊠ (	6)⊠ Claim(s) <u>39-45</u> is/are rejected.					
7) 🗌 (	Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) L Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)			
S. Patent and Trac	lamort Office					

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#### **DETAILED ACTION**

# Election/Restrictions

Applicant's election without traverse of Group IV, claims 39-45 in Paper No. 13 is acknowledged.

# Information Disclosure Statement

The IDS filed 9/4/01 has been considered and an initialed copy of the PTO-1449 is enclosed.

# Claim Rejections - 35 USC § 112

Claims 39-45 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Applicant claims and discloses the screening of compounds that bind to at least the cdc20 portion of Mad2 and that if these compounds do bind to Mad2 then these compounds may have anti-cancer activity. In support of these claims, applicant has shown that MBP1 interacts with Mad2 and that MBP1 can block the biochemical function of Mad2 in vitro (page 77). Furthermore, applicant speculates that inhibitory peptides may have anti-cancer effects (page 78). This evidence is insufficient.

Applicant has not provided any objective evidence to show that peptides derived from MBP1 have any anti-cancer effects. In fact, applicant has not even demonstrated

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which domain of MBP1 is involved in the interaction nor has applicant disclosed a consensus sequence from a MBP1 domain that would guide one skilled in the art as to what types of peptides could be tried in an anti-cancer activity assay. In fact, it may not even be a linear sequence of amino acids involved in the interaction, but the interaction domain could be conformational. If this is the case, then applicant has not provided any guidance as to what conformation is required to the interaction.

The state of the art does not rectify this matter. The art of record does not show that there are peptides that can interact with Mad2 and that these peptides have anticaner effects. If there is any objective evidence to show that peptides that interact with Mad2 and anti-cancer effects, then applicant is invited to make it of record.

Furthermore, applicant's claims are not solely limited to peptides, but also read on any kind of "substance". The substance could be inorganic in nature, could be organic in nature or it could be an antibody. In other words, applicant has not enabled the scope of the compounds encompassed by "substance".

Thus, in view of the lack of objective evidence as discussed above, and in view of the breadth of the claims, it is the Examiner's position that one skilled in the art would require undue experimentation to use the claimed invention.

# Conclusion

No claim is allowed.

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The claims are free from the art of record, because the art does not disclose any compounds that interact with Mad2 and that these compounds possess anti-cancer activity.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sheela J Huff whose telephone number is 703-305-7866. The examiner can normally be reached on Tuesday 5:30am-11:30am and Fridays 6:00am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Caputa can be reached on 703-308-3995. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

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Sheela J Huff Primary Examiner Art Unit 1642

sjh July 25, 2003